COURTESY COPY OF THE
PCT APPLICATION AS
ORIGINALLY FILED WITH
ABSTRACT

(19) World Intellectual Property Organizati n International Bureau

CHPO

(43) International Publication Date 14 December 2000 (14.12.2000)

PCT

(10) International Publication Number WO 00/74812 A1

- (51) International Patent Classification⁷: B04B 1/00, D21D 5/26, F04D 7/04
- B01D 19/00,
- (21) International Application Number:
 - PCT/F100/00497
- (22) International Filing Date:
- 2 June 2000 (02.06.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

991271

3 June 1999 (03.06.1999) FI

- (71) Applicant (for all designated States except US): POM TECHNOLOGY OY AB [FI/FI]; Georgsgatan 30, FIN-00100 Helsinki (FI).
- (72) Inventor, and
- (75) Inventor/Applicant (for US only): MEINANDER, Paul, Olof [FI/FI]; Bolagsgränden 2, FIN-02700 Grankulla (FI).
- (74) Agent: BORENIUS & CO. OY AB; Kansakoulukuja 3, FIN-00100 Helsinki (FI).

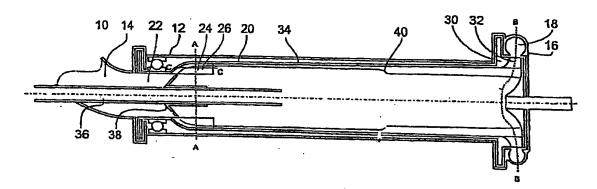
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SL, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEGASSING CENTRIFUGAL APPARATUS, PROCESS FOR PUMPING AND DEGASSING A FLUID AND PROCESS FOR PRODUCING PAPER OR BOARD



(57) Abstract: The invention relates to a degassing centrifugal apparatus such as a pump and to a process for pumping and degassing a fluid. The apparatus has a rotatable hollow rotor (20) connected to a stationary fluid inlet (14) at one end and a stationary liquid outlet (16) at the opposite end and a gas exhaust (36) in the center thereof. The rotor (20) has at its inlet end a bladed shovel wheel (26) with arcuate shovels (24). The shovel wheel (26) accelerates a fluid flow in said rotor inlet end and causes the fluid to rotate at a peripherical velocity higher than the peripherical velocity of said rotor inlet end. The apparatus is especially useful for pumping and degassing backwater in the production of paper or board in a paper machine.

10/74812 A1